

Amendments to the Claims:

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. **(Currently Amended)** A method for separating metallic carbon nanotubes and semi-conducting carbon nanotubes, comprising:
 providing a suspension containing a plurality of individual metallic carbon nanotubes and semi-conducting carbon nanotubes in a liquid, for which the dielectric constant ϵ_L meets the requirement:

$$\epsilon_M > \epsilon_L > \epsilon_H,$$

 wherein ϵ_M is the ~~[dielectric]~~ dielectric constant of the metallic carbon nanotubes and ϵ_H is the dielectric constant of the semi-conducting carbon nanotubes;

 applying a non-homogeneous electric alternating field to the suspension to create spatially separate species of the metallic carbon nanotubes and the semi-conducting carbon nanotubes; and

 removing at least one of the separate species.

2. **(Original)** The method according to claim 1, wherein the providing step includes forming a suspension in water of the carbon nanotubes.

3. **(Original)** The method according to claim 2, including adding a surfactant to the suspension as a separating mechanism.

4. **(Original)** The method according to claim 1, wherein the applying step includes using an alternating field having a peak-to-peak field intensity selected from a range between about 10^3 V/m and about 10^9 V/m.

5. **(Original)** The method according to claim 4, wherein the range is about 10^4 V/m to about 10^6 V/m.

6. **(Original)** The method according to claim 4, wherein the peak-to-to field intensity is about 10^5 V/m.

7. **(Original)** The method according to claim 1, wherein the applying step includes using an alternating field having a frequency from a range between about 10kHz and about 100GHz.

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8. **(Original)** The method according to claim 7, wherein the range is about 1MHz to about 100MHz.

9. **(Original)** The method according to claim 7, wherein the frequency is about 10MHz.

10. **(Cancelled)**

11. **(Cancelled)**

12. **(Cancelled)**

13. **(Cancelled)**